S VT

AA-PUR 307

STATE OF VERMONT

OFFICE MEMO

TO: Margaret Weeks

FROM: Barbara Burns

DATE:

SUBJECT: Southern Region, Vermont 1987 Conditions

☐ APPROVAL	☐ NOTE AND SEE ME	☐ PER CONVERSATION
☐ SIGNATURE	☐ NOTE AND RETURN	☐ AS REQUESTED
☐ COMMENT	☐ NOTE AND FILE	☐ NECESSARY ACTION
☐ REVIEW	☐ FOR YOUR INFORMATION	☐ GIVE ME THE FACTS
☐ PREPARE REPLY FOR MY SIGNATURE		☐ SUGGESTIONS REQUESTED
☐ YOUR ACTION REQUESTED BY THIS DATE		

REMARKS:

Margaret —

This is just for Southern Vermont. You should be getting the same from Ron. Call if you have questions

— Barbara

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1987 PEST CONDITIONS REPORT WORK SHEET

PEST - (COMMON NAME): Ash Yellows

(SPECIFIC NAME):

HOST: White Ash

PRESENT CONDITION:

AREA - TOTAL ACRES: 1370

LOCATION: Bennington

SEVERITY - INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES:

LOSSES - INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES:

TREND - CHANGES IN INCIDENCE AND SEVERITY OVER THE PAST FEW YEARS AND EXPECTATIONS FOR NEXT YEAR:

Continues to be a serious problem.

CONTROL PROJECTS - METHOD, MATERIAL, ACRES, COST, RESULTS:

ADDITIONAL COMMENTS: A survey by Wayne Sinclair confirmed the presence of MLO in symptomatic ash located in 5 towns.

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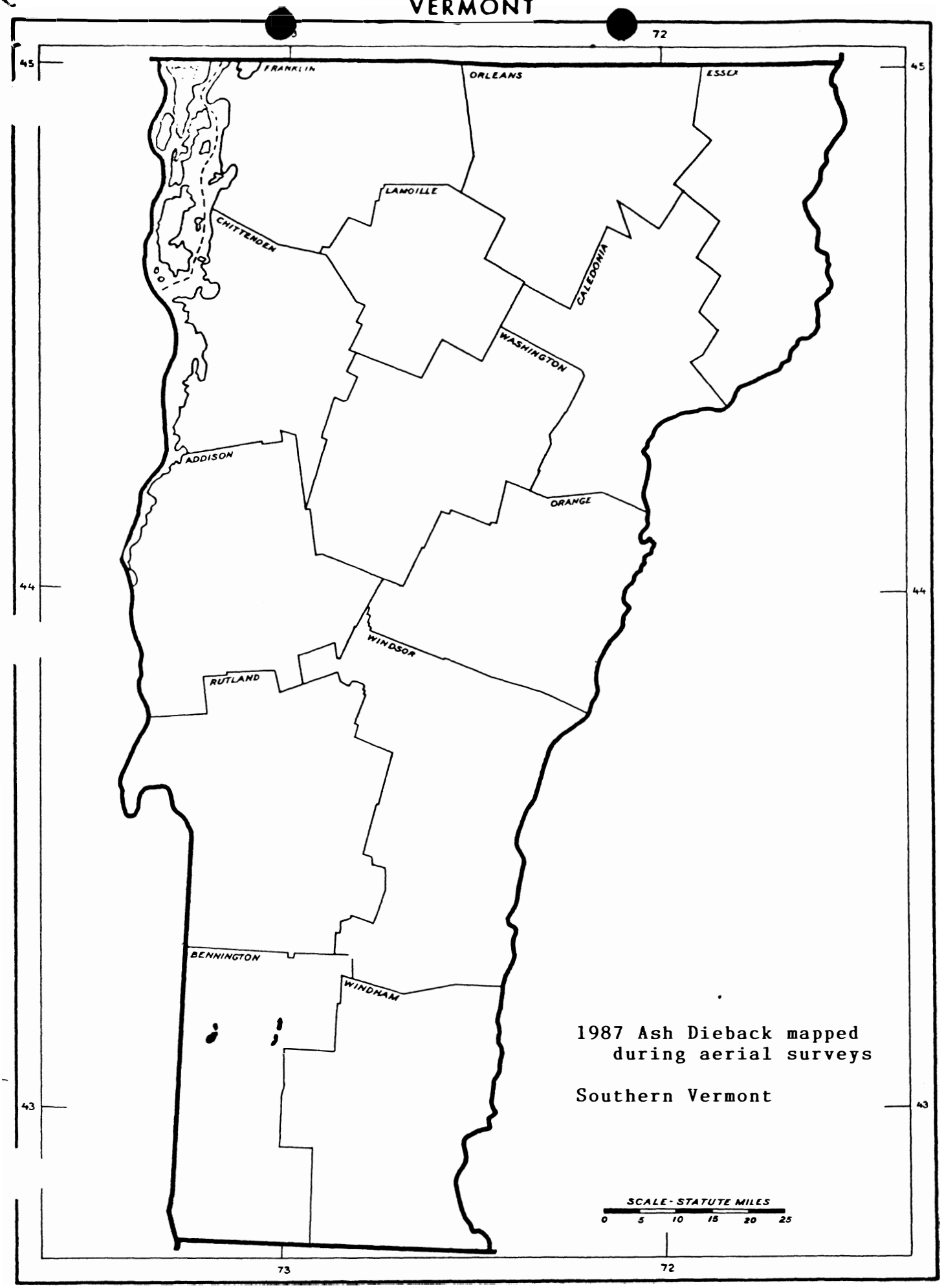

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1987 PEST CONDITIONS REPORT WORK SHEET

PEST - (COMMON NAME): Beech Bark Disease

(SPECIFIC NAME):

HOST: Beech

PRESENT CONDITION:

AREA - TOTAL ACRES:

LOCATION:

SEVERITY - INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES:

LOSSES - INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES:

TREND - CHANGES IN INCIDENCE AND SEVERITY OVER THE PAST FEW YEARS AND EXPECTATIONS FOR NEXT YEAR:

Chlorotic tops and Nectria fruiting were observed throughout, more commonly than in recent years.

CONTROL PROJECTS - METHOD, MATERIAL, ACRES, COST, RESULTS:

ADDITIONAL COMMENTS: Scale populations increased in all three monitoring plots.

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1987 PEST CONDITIONS REPORT WORK SHEET

PEST - (COMMON NAME): Cooley Spruce Gall Aphid

(SPECIFIC NAME): Adelges cooleyi

HOST: Douglas Fir

PRESENT CONDITION:

AREA - TOTAL ACRES:

LOCATION: Christmas Tree Plantations

SEVERITY - INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES:

LOSSES - INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES:

TREND - CHANGES IN INCIDENCE AND SEVERITY OVER THE PAST FEW YEARS AND EXPECTATIONS FOR NEXT YEAR:

Although still a problem in some locations, damage less than 1986.

CONTROL PROJECTS - METHOD, MATERIAL, ACRES, COST, RESULTS:

Some infestations controlled by early fall spraying and re-spray in the spring.

ADDITIONAL COMMENTS:

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1987 PEST CONDITIONS REPORT WORK SHEET

PEST - (COMMON NAME): Early Birch Leaf Edgeminer

(SPECIFIC NAME): Messa nana

HOST: Paper Birch

PRESENT CONDITION:

AREA - TOTAL ACRES: 24,170 acres

LOCATION: See map

SEVERITY - INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES:

Heavy Defoliation (>60%)

LOSSES - INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES:

Severe defoliation wherever birch density is high.

TREND - CHANGES IN INCIDENCE AND SEVERITY OVER THE PAST FEW YEARS AND EXPECTATIONS FOR NEXT YEAR:

CONTROL PROJECTS - METHOD, MATERIAL, ACRES, COST, RESULTS:

ADDITIONAL COMMENTS:

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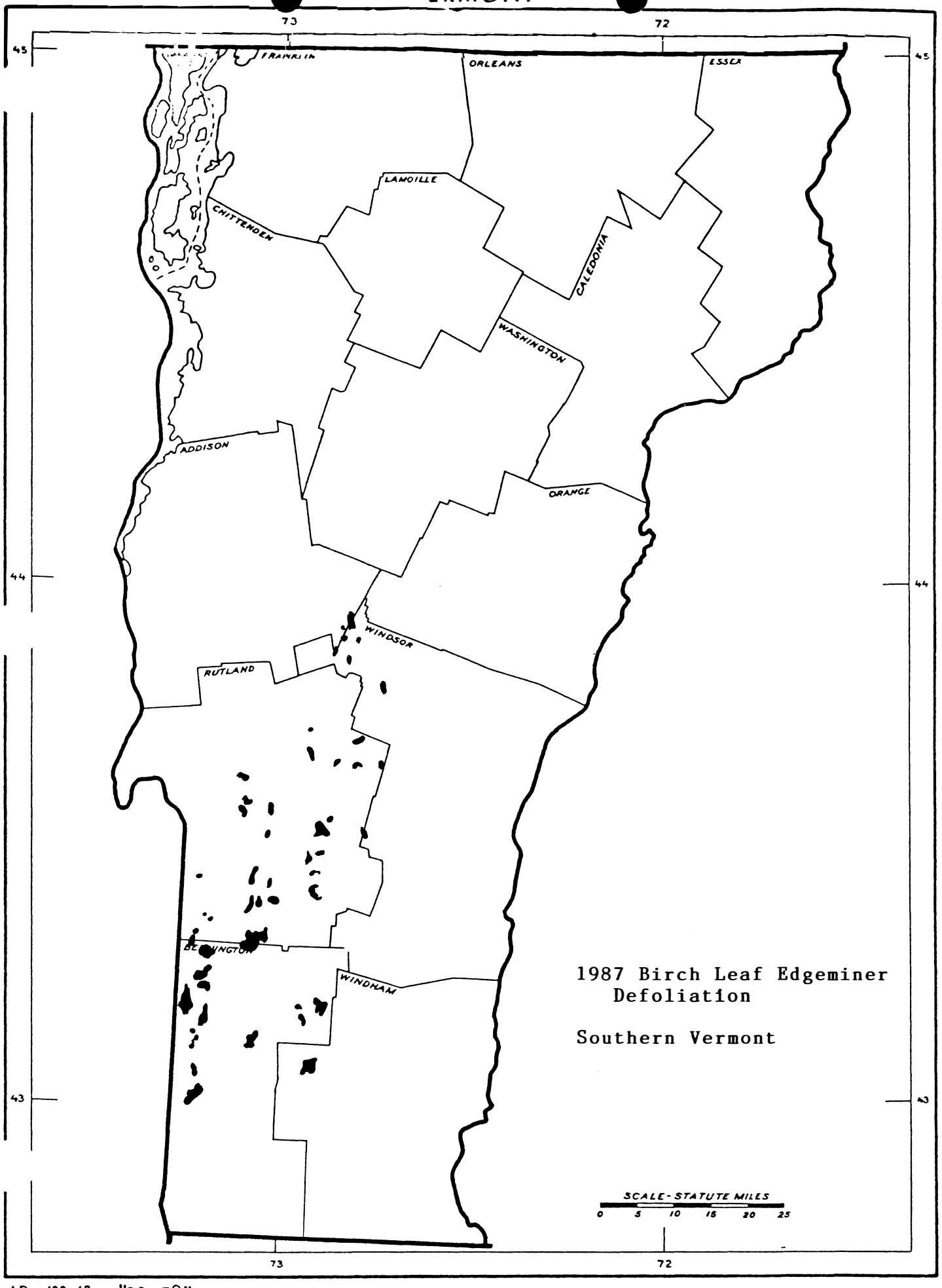

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1987 PEST CONDITIONS REPORT WORK SHEET

PEST - (COMMON NAME): Eastern Spruce Gall Aphid

(SPECIFIC NAME): Adelges abietis

HOST: Spruces

PRESENT CONDITION:

AREA - TOTAL ACRES:

LOCATION:

SEVERITY - INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES:
Severe damage to individual trees. Otherwise light.

LOSSES - INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES:

TREND - CHANGES IN INCIDENCE AND SEVERITY OVER THE PAST FEW YEARS AND EXPECTATIONS FOR NEXT YEAR:

CONTROL PROJECTS - METHOD, MATERIAL, ACRES, COST, RESULTS:

ADDITIONAL COMMENTS:

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1987 PEST CONDITIONS REPORT WORK SHEET

PEST - (COMMON NAME): Forest Tent Caterpillar

(SPECIFIC NAME): Malacosoma disstria

HOST: Sugar Maple, etc.

PRESENT CONDITION:

AREA - TOTAL ACRES: 0

LOCATION:

SEVERITY - INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES:

LOSSES - INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES:

None

TREND - CHANGES IN INCIDENCE AND SEVERITY OVER THE PAST FEW YEARS AND EXPECTATIONS FOR NEXT YEAR:

Increasing, larvae commonly seen.

CONTROL PROJECTS - METHOD, MATERIAL, ACRES, COST, RESULTS:

ADDITIONAL COMMENTS:

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1987 PEST CONDITIONS REPORT WORK SHEET

PEST - (COMMON NAME): Gypsy Moth

(SPECIFIC NAME): Lymantria dispar

HOST: Plants

PRESENT CONDITION:

AREA - TOTAL ACRES: 0

LOCATION:

SEVERITY - INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES:

LOSSES - INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES:

None

TREND - CHANGES IN INCIDENCE AND SEVERITY OVER THE PAST FEW YEARS AND EXPECTATIONS FOR NEXT YEAR:

Increasing: Some defoliation expected in Rutland County in 1988.

CONTROL PROJECTS - METHOD, MATERIAL, ACRES, COST, RESULTS:

None.

ADDITIONAL COMMENTS: Monitoring continued in 7 focal area plots. See table.

Table 2: Gypsy moth counts from local area monitoring plots: 1986-1987

Plot location	# of Larvae & pupae at peak 5th instar[1,4]		# of Moths[2]	# of [redacted] masses[3,4]	
	1986	1987	1987	1986	198
Minards Pond	9	28	495	0	0
Ft. Dummer	4	12	324	2	0
Handley Mtn	6	4	273	1	1
Perch Pond	6	134	718	0	115
Rocky Pond	26	57	176	0	6
Petersburg	9	14	359	1	0
Tate Hill	2	1	127	0	0

1. Number under burlap bands in 15 m. diameter plots
2. Total count per one trap
3. Total number [redacted] in 15 m diameter plots
4. Average of 3 plots in 1986 and 2 plots in 1987

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1987 PEST CONDITIONS REPORT WORK SHEET

PEST - (COMMON NAME): Lecanium Scale

(SPECIFIC NAME): Lecanium sp.

HOST: Hardwoods

PRESENT CONDITION:

AREA - TOTAL ACRES: Widespread

LOCATION: Southern Vermont

SEVERITY - INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES:
Heavy infestations on sugar maple, oak and ash.

LOSSES - INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES:
Injuries on twigs and sooty mold indicate that heavy infestations in past was cause of sugar maple twig dieback in several locations.

TREND - CHANGES IN INCIDENCE AND SEVERITY OVER THE PAST FEW YEARS AND EXPECTATIONS FOR NEXT YEAR:
High crawler numbers indicate that this insect may be a problem again next year.

CONTROL PROJECTS - METHOD, MATERIAL, ACRES, COST, RESULTS:

ADDITIONAL COMMENTS:

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1987 PEST CONDITIONS REPORT WORK SHEET

PEST - (COMMON NAME): Maple Decline

(SPECIFIC NAME):

HOST: Sugar Maple

PRESENT CONDITION:

AREA - TOTAL ACRES:

LOCATION:

SEVERITY - INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES:

LOSSES - INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES:

TREND - CHANGES IN INCIDENCE AND SEVERITY OVER THE PAST FEW YEARS AND EXPECTATIONS FOR NEXT YEAR:

CONTROL PROJECTS - METHOD, MATERIAL, ACRES, COST, RESULTS:

ADDITIONAL COMMENTS: Maples looked thin throughout southern Vermont because of a complex of insects (thrips, Norway maple aphid, Lecanium scale, Cottony maple scale). In other locations decline was associated with wet site, severe thinning, and shoestring root rot. The cause of widespread dieback in Glastonbury is unknown.

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1987 PEST CONDITIONS REPORT WORK SHEET

PEST - (COMMON NAME): Norway Maple Aphid

(SPECIFIC NAME): Periphyllus lyropictus

HOST: Sugar Maple

PRESENT CONDITION:

AREA - TOTAL ACRES:

LOCATION: Widespread

SEVERITY - INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES:

LOSSES - INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES:
Often associated with Pear Thrips. Damage due to each insect difficult to determine.

TREND - CHANGES IN INCIDENCE AND SEVERITY OVER THE PAST FEW YEARS AND EXPECTATIONS FOR NEXT YEAR:
Insect was not observed in 1986, but occurred in high numbers throughout this year.

CONTROL PROJECTS - METHOD, MATERIAL, ACRES, COST, RESULTS:

ADDITIONAL COMMENTS:

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1987 PEST CONDITIONS REPORT WORK SHEET

PEST - (COMMON NAME): Pear Thrips

(SPECIFIC NAME): Taeniothrips inconsequens

HOST: Sugar Maple

PRESENT CONDITION:

AREA - TOTAL ACRES: 6448

LOCATION: See map.

SEVERITY - INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES:

6448 acres = visible defoliation, probably moderate (30-60%).

LOSSES - INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES:

Damage was compounded by Norway Maple Aphid, Lecanium Scale, and Cottony Maple Scale.

TREND - CHANGES IN INCIDENCE AND SEVERITY OVER THE PAST FEW YEARS AND EXPECTATIONS FOR NEXT YEAR:

1987 was the third, and most severe, year of infestation.

CONTROL PROJECTS - METHOD, MATERIAL, ACRES, COST, RESULTS:

ADDITIONAL COMMENTS: Spring sampling methods tested for the second year. Counting thrips in developing buds of surrounding regeneration is promising as a predictor of defoliation.

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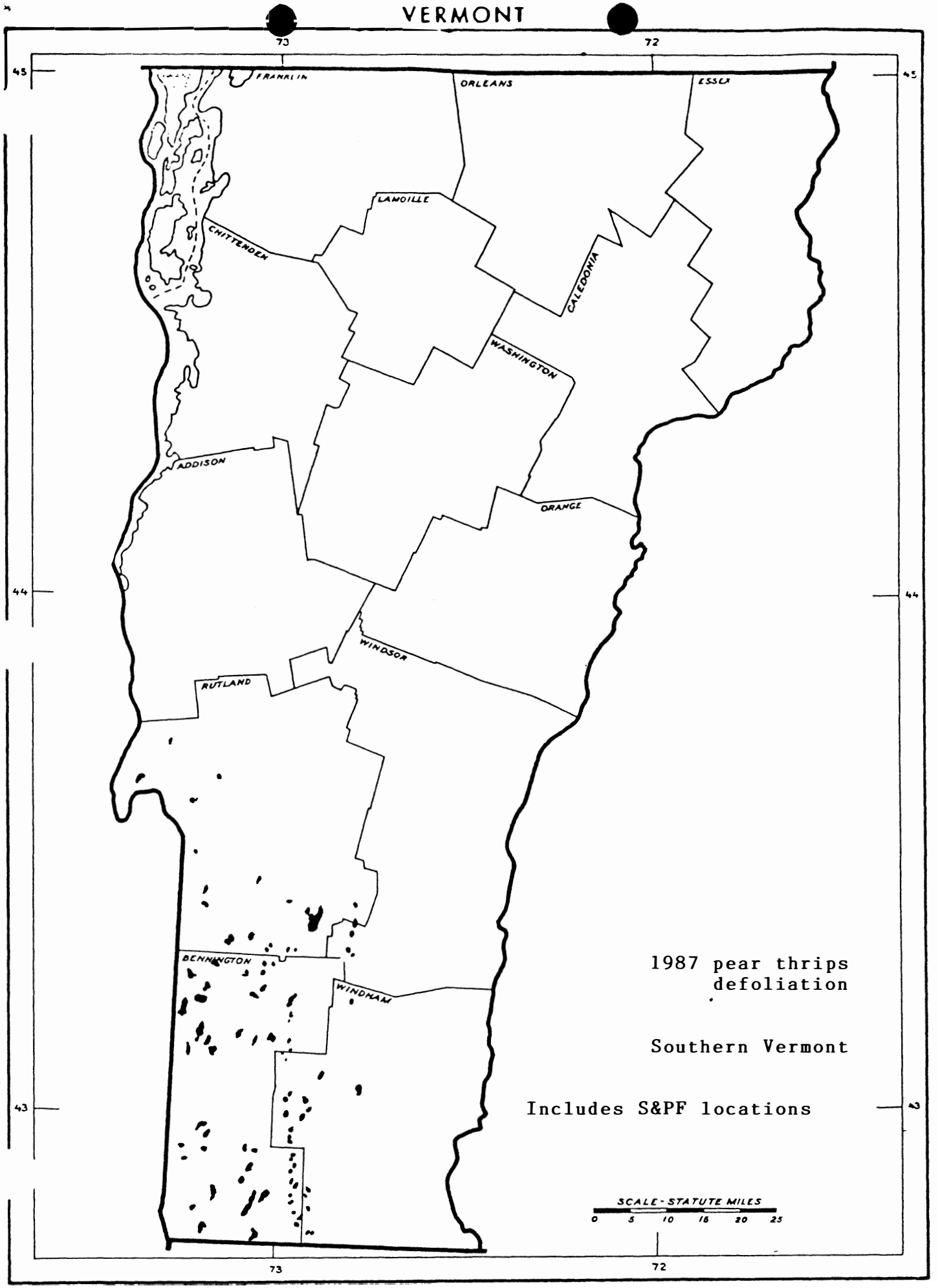

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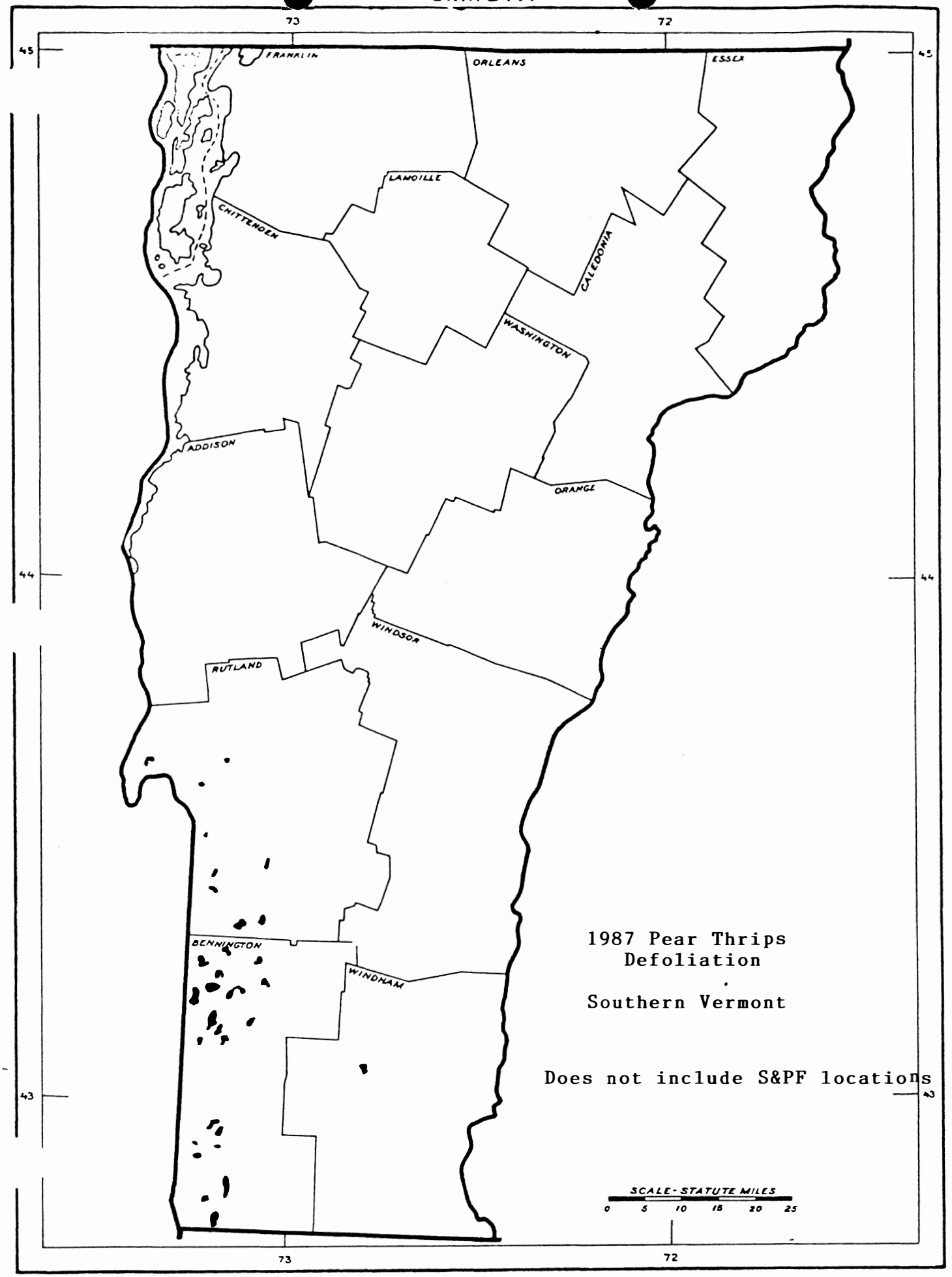

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1987 PEST CONDITIONS REPORT WORK SHEET

PEST - (COMMON NAME): Rhabdocline Needlecast

(SPECIFIC NAME): Rhabdocline pseudotsugoe

HOST: Douglas Fir

PRESENT CONDITION:

AREA - TOTAL ACRES:

LOCATION:

SEVERITY - INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES:

LOSSES - INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES:

TREND - CHANGES IN INCIDENCE AND SEVERITY OVER THE PAST FEW YEARS AND EXPECTATIONS FOR NEXT YEAR:

CONTROL PROJECTS - METHOD, MATERIAL, ACRES, COST, RESULTS:

Several Christmas tree plantations required spraying for the first time this year.

ADDITIONAL COMMENTS:

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1987 PEST CONDITIONS REPORT WORK SHEET

PEST - (COMMON NAME): Saddled Prominent

(SPECIFIC NAME): Heterocampa guttivata

HOST: Sugar Maple, etc.

PRESENT CONDITION:

AREA - TOTAL ACRES: 0

LOCATION:

SEVERITY - INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES:

LOSSES - INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES:

None

TREND - CHANGES IN INCIDENCE AND SEVERITY OVER THE PAST FEW YEARS AND EXPECTATIONS FOR NEXT YEAR:

Increasing - Larvae seen in scattered location associated with light defoliation.

CONTROL PROJECTS - METHOD, MATERIAL, ACRES, COST, RESULTS:

ADDITIONAL COMMENTS:

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1987 PEST CONDITIONS REPORT WORK SHEET

PEST - (COMMON NAME): Shoestring Root Rot

(SPECIFIC NAME): Armillaria sp.

HOST:

PRESENT CONDITION:

AREA - TOTAL ACRES:

LOCATION:

SEVERITY - INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES:

LOSSES - INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES:

TREND - CHANGES IN INCIDENCE AND SEVERITY OVER THE PAST FEW YEARS AND EXPECTATIONS FOR NEXT YEAR:

CONTROL PROJECTS - METHOD, MATERIAL, ACRES, COST, RESULTS:

ADDITIONAL COMMENTS: Associated with:

Balsam fir Christmas tree mortality
Basal bleeding of sugarbush maples
Spruce mortality in stagnated or recently cut stands
Post logging decadence of Hemlock

Southern Vermont

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1987 PEST CONDITIONS REPORT WORK SHEET

PEST - (COMMON NAME): Spruce Spider Mite

(SPECIFIC NAME): Oligonychus ununguis

HOST: Conifers, especially Balsam & Fraser Fir

PRESENT CONDITION:

AREA - TOTAL ACRES:

LOCATION:

SEVERITY - INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES:

Heavy damage primarily in Christmas tree plantations.

LOSSES - INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES:

TREND - CHANGES IN INCIDENCE AND SEVERITY OVER THE PAST FEW YEARS AND EXPECTATIONS FOR NEXT YEAR:

Populations high early in the season, but collapsed in some locations by mid-summer.

CONTROL PROJECTS - METHOD, MATERIAL, ACRES, COST, RESULTS:

Miticide trials conducted on Balsam fir Christmas trees (Omite-CR and Savey)

ADDITIONAL COMMENTS:

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1987 PEST CONDITIONS REPORT WORK SHEET

PEST - (COMMON NAME): White Pine Needle Blight

(SPECIFIC NAME):

HOST: Eastern White Pine

PRESENT CONDITION:

AREA - TOTAL ACRES:

LOCATION:

SEVERITY - INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES:

LOSSES - INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES:
Current foliage of individual white pines severely browned - in Christmas tree plantations and forest situations.

TREND - CHANGES IN INCIDENCE AND SEVERITY OVER THE PAST FEW YEARS AND EXPECTATIONS FOR NEXT YEAR:

Has recurred for several years in a row.

CONTROL PROJECTS - METHOD, MATERIAL, ACRES, COST, RESULTS:

ADDITIONAL COMMENTS:

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1987 PEST CONDITIONS REPORT WORK SHEET

PEST - (COMMON NAME): Snow Damage

(SPECIFIC NAME):

HOST: Most severe impact on red oak, beech, popple, hickory and ash.

PRESENT CONDITION:

AREA - TOTAL ACRES: A 168,300 acre area was affected

LOCATION: Damage occurred in scattered locations within this area

SEVERITY - INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES:

LOSSES - INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES:

Worst damage to pole timber stands below 1200'.

TREND - CHANGES IN INCIDENCE AND SEVERITY OVER THE PAST FEW YEARS AND EXPECTATIONS FOR NEXT YEAR:

CONTROL PROJECTS - METHOD, MATERIAL, ACRES, COST, RESULTS:

ADDITIONAL COMMENTS: Up to 16" of snow fell on October 4.

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1987 PEST CONDITIONS REPORT WORK SHEET

PEST - (COMMON NAME): Saddled Prominent

(SPECIFIC NAME): Heterocampa guttivitta

HOST: Sugar maple, beech and also other hardwoods.

PRESENT CONDITION:

AREA - TOTAL ACRES: 100

LOCATION: Compartments 13, 19, 26 in Middlebury R.D.
" 129 & 134 Manchester R.D.

SEVERITY - INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES:

No ~~[redacted]~~ defoliation

LOSSES - INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES:

None.

TREND - CHANGES IN INCIDENCE AND SEVERITY OVER THE PAST FEW YEARS AND EXPECTATIONS FOR NEXT YEAR:

A rising population is expected in 1989

CONTROL PROJECTS - METHOD, MATERIAL, ACRES, COST, RESULTS:

No control project for 1988

ADDITIONAL COMMENTS:

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1987 PEST [illegible]S REPORT WORK SHEET

PEST - (COMMON NAME): PEAR THRIPS

(SPECIFIC NAME): TAENIOTHRIPS INCONSEQUENS (UZEL)

HOST: NORTHERN HARDWOODS (PARTICULARLY SUGAR MAPLE) CHERRY, ASH

PRESENT CONDITION:

AREA - TOTAL ACRES: 20,500 WITHIN PURCHASE AREA; 8100 WITHIN PRESENT BOUNDARIES

LOCATION: GREEN MTN NAT. FOR., VT.

SEVERITY - INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES:

8100 ACRES DEFOLIATED 30 PERCENT OR MORE

LOSSES - INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES:

NONE

TREND - CHANGES IN INCIDENCE AND SEVERITY OVER THE PAST FEW YEARS AND EXPECTATIONS FOR NEXT YEAR:

1987 WAS FIRST YEAR NOTICEABLE DEFOLIATION OCCURRED ON FOREST, EXPECT SOME NEXT YEAR BUT EXTENT UNKNOWN

CONTROL PROJECTS - METHOD, MATERIAL, ACRES, COST, RESULTS:

NONE

ADDITIONAL COMMENTS: